

**ANSWER KEY: Mission Directorates Day 1****Anticipation/Reaction Guide (Pre-Instruction Activity):**

An Anticipation/Reaction Guide is used to assess a class's knowledge before it begins a lesson. The statements for the Anticipation/Reaction guide are selected or formed by the teacher based upon significant information in the reading. This activity allows students to focus on some of the important information and see if their statements are supported by the reading.

Directions:

Respond to each statement twice—once before the lesson and again after the lesson—by predicting which NASA Directorate is being described.

Exploration Systems | Science | Aeronautics | Space Operations

Response Before Lesson	Topic: NASA Directorates	Response After Lesson
Answers will vary	Pioneers and proves new flight technologies that improve our ability to explore and which have practical applications on Earth.	Aeronautics
	Creates new capabilities and spacecraft for affordable, sustainable human and robotic exploration.	Exploration Systems
	Explores the Earth, Moon, Mars, and beyond, charts the best route of discovery, and reaps the benefits of Earth and space exploration for society.	Science
	Extends the duration and boundaries of human space flight to create new opportunities for exploration and discovery. Provides critical enabling technologies for much of the rest of NASA through the Space Shuttle, the International Space Station and flight support.	Space Operations

Semantic Feature Analysis:

A set of concepts is listed down the left side (Or it will be across the top; it doesn't much matter which.), and criteria or features are listed across the top (or down the side). If the concept is associated with the feature or characteristic, the student records a + (plus-sign) in the grid where that column and row intersect. If the feature is not associated with the concept, a - (minus-sign) is placed in the corresponding square on the grid.

Directions:

As your class explores the various directorates and their missions, make notes about the several missions in the first column. The notes about the Space Shuttle have been written in for you. Next, add a + (plus sign) to each table cell as you come across common characteristics.

Missions	Aeronautics	Exploration Systems	Science	Space Operations
Space Shuttle	+	+	+	+
Answers will vary				